



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: September 5, 2008

Effective Date: September 5, 2008

Expiration Date: February 28, 2010

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 06-05069N

Federal Tax Id - Plant Code: 23-1315454-1

Plan Approval Description

This plan approval is issued for the various actions at the Assembly Plants S-1 and A-2 as described in Condition #14, Section C of this plan approval.

Owner Information

Name: EAST PENN MANUFACTURING COMPANY, INC.  
Mailing Address: DEKA RD  
PO BOX 147  
LYON STATION, PA 19536

Plant Information

Plant: EAST PENN MFG CO INC/BATTERY ASSEMBLY  
Location: 06 Berks County 06953 Richmond Township  
SIC Code: 3691 Manufacturing - Storage Batteries

Responsible Official

Name: TROY GREISS  
Title: DIR, ENV HEALTH & SAFETY  
Phone: (610) 682 - 6361

Plan Approval Contact Person

Name: ERIC G PEFFEL  
Title: ENV H&S ENGINEER  
Phone: (610) 682 - 6361

[Signature] \_\_\_\_\_  
WILLIAM R WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



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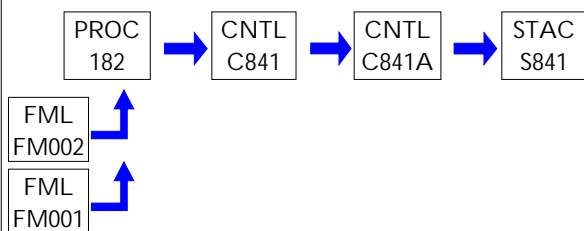
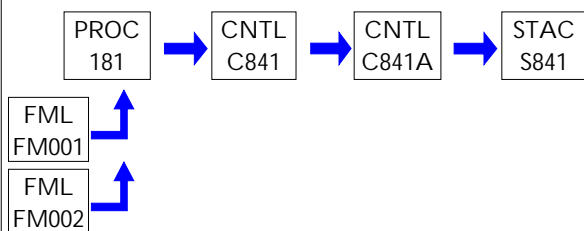
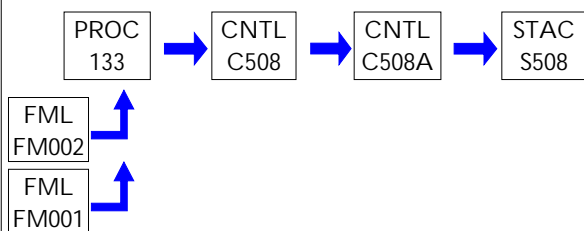
Section H. Miscellaneous



## SECTION A. Plan Approval Inventory List

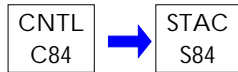
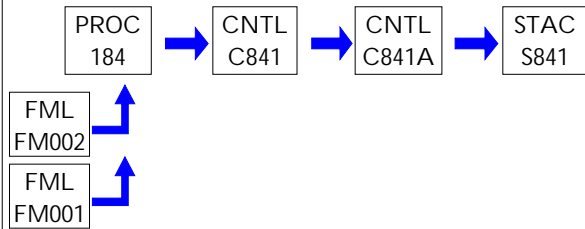
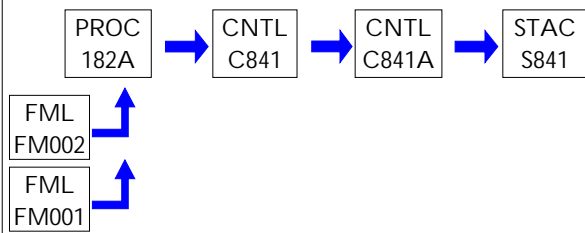
Source ID	Source Name	Capacity/Throughput	Fuel/Material
133	A-2 GRIDCAST (CARB FC 1 & SCIEN FC 2, 7 & 10)		
181	S-1 BATTERY ASSMBLY & DRY CHARGE (SCIEN FC #3)		
182	S-1 GRIDCAST (SCIENTIFIC FC #1)		
182A	S-1 CONCAST (SCIENTIFIC FC #1)		
184	S-1 MIXING & PASTING (SCIENTIFIC FC #1)		
C508	FABRIC COLLECTOR: A-2 COS/ENVELOP/GRIDCAST (SCIEN #10)		
C508A	HEPA: A-2 COS/ENVELOP/GRIDCASTING (SCIEN #10)		
C84	ROTOCLONE: S-1 MIXING (AAF)		
C841	FABRIC CLTR: S-1 ASSMBL/GRID CAST/CONCAST/PASTE (SCI #1)		
C841A	HEPA: ASSMBL/GRISCAST/CONCAST/PASTE (SCI #1)		
FM001	PROPANE TANK FARM		
FM002	NATURAL GAS PIPELINE		
S508	STACK: A-2 COS/ENVELOP/GRIDCASTING (SCIEN #10)		
S84	STACK: S-1 MIXING (ROTOCLONE)		
S841	STACK: ASSMBL/GRIDCAST/CONCAST/PASTE (SCI #1)		

## PERMIT MAPS





## PERMIT MAPS



**SECTION B. General Plan Approval Requirements**

#001 [25 Pa. Code § 121.1]

**Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]

**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]

**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]

**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) &amp; 35 P.S. § 4013.2]

**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

**SECTION B. General Plan Approval Requirements**

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]

**Plan Approval terms and conditions.**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]

**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]

**Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel

## SECTION B. General Plan Approval Requirements

in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]

### Plan Approval Extensions

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]

### Circumvention

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]

### Submissions

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]

### Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention



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provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 127.25]

### Compliance Requirement

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

## SECTION C. Site Level Plan Approval Requirements

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.1]

##### Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

- a. Construction or demolition of buildings or structures.
- b. Grading, paving and maintenance of roads and streets.
- c. Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- d. Clearing of land.
- e. Stockpiling of materials.

Sources and classes of sources other than those identified in paragraphs (a) - (e), for which the operator has obtained a determination from the Department in accordance with 25 Pa. Code Section 123.1(b) that fugitive emissions from the source, after appropriate control, meet the following requirements:

- a. The emissions are of minor significance with respect to causing air pollution; and
- b. The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

# 002 [25 Pa. Code §123.2]

##### Fugitive particulate matter

No person shall permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in the preceding permit Condition #001, Section C, if such emissions are visible at the point the emissions pass outside the person's property.

# 003 [25 Pa. Code §123.31]

##### Limitations

No person shall emit any malodorous air contaminants into the outdoor atmosphere from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

### II. TESTING REQUIREMENTS.

# 004 [25 Pa. Code §123.43]

##### Measuring techniques

Visible emissions may be measured by using either of the following:

- a. A device approved by the Department and maintained to provide accurate opacity measurements.
- b. Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

**SECTION C. Site Level Plan Approval Requirements**

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The Department reserves the right to require exhaust stack testing of any source as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions or permit condition violations.

# 006 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

For any testing the permittee shall do the following:

- a. Pursuant to 25 Pa. Code § 139.3 at least 45 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- b. Pursuant to 25 Pa. Code § 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- c. Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.
- d. Pursuant to 40 CFR Part 60.8(a) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.
- e. Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
  1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
  2. Permit number(s) and condition(s) which are the basis for the evaluation.
  3. Summary of results with respect to each applicable permit condition.
  4. Statement of compliance or non-compliance with each applicable permit condition.
- f. Pursuant to 25 Pa. Code § 139.3 all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- g. All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- h. Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, a copy of the submittal shall be sent to the South Central Regional Office and the

## SECTION C. Site Level Plan Approval Requirements

Reading District Office.

i. The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between the state and the federal requirements, the most stringent provision, term, condition, method or rule shall be used by default.

# 007 [25 Pa. Code §139.1]

[Sampling facilities.](#)

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such sources. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

### III. MONITORING REQUIREMENTS.

# 008 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall conduct a weekly inspection of the sources covered by this approval during the daylight hours when the facility is in production to detect visible emissions, fugitive emissions and malodors as follows:

- a. Visible emissions in excess of the limits specifically stated in this permit in Section D and Section E. Visible emissions may be measured according to the methods specified in Condition #004, Section C. As an alternative, facility personnel who observe such visible emissions shall report each incident to the Department within two hours of each occurrence and make arrangements for a certified observer to read the visible emissions.
- b. Presence of visible fugitive emissions and fugitive particulate matter beyond the plant property boundaries, as stated in Condition #002, Section C.
- c. Presence of odors beyond the facility property boundaries that have the potential to be malodorous as stated in Condition #003, Section C.

### IV. RECORDKEEPING REQUIREMENTS.

# 009 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall record the results of the weekly inspections around the facility on the Department approved check sheets. The check sheets shall be made available to the Department upon request. The sheets shall be maintained in an acceptable manner.

### V. REPORTING REQUIREMENTS.

# 010 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall notify the Reading District Office of the initial startup of each new source, the completion of each modification of an existing source and the completion of each installation of a new control device.

## SECTION C. Site Level Plan Approval Requirements

# 011 [25 Pa. Code §127.12b]

### Plan approval terms and conditions.

[Additional authority for this permit condition is derived from 25 PA Code Chapter 122 and 40 CFR Part 60, Section 60.19, NSPS]

- a. The permittee shall report each malfunction to the Department that occurs with these sources. For purposes of this condition, a malfunction is any sudden, infrequent and not reasonably preventable failure of the air pollution control equipment, process equipment, or process to operate in a normal or usual manner that may result in an increase in air emissions above minor significance.
- b. When malfunctions pose an imminent danger to public health and safety or harm to the environment, the notification shall be submitted to the Department no later than two (2) hours after the incident is detected by the permittee.
1. The notice shall describe the:
    - i. Name and location of the facility;
    - ii. Nature and cause of the malfunction or breakdown;
    - iii. Time when the malfunction or breakdown was first observed;
    - iv. Expected duration of excess emissions; and
    - v. Estimated rate of emissions.
  2. The permittee shall notify the Department immediately when corrective measures have been accomplished.
  3. Subsequent to the malfunction, the permittee shall submit a full report of the malfunction to the Department within fifteen (15) days, if requested.
- c. Malfunctions shall be reported to the Department at the following address:

PA DEP, Reading District Office  
Air Quality Program  
1001 Cross Roads Blvd  
Reading, Pa 19605

Telephone reports can be made to the Air Quality Program at 610-916-0100 during normal business hours or to the Department's Emergency Hotline 877-333-1904 at any time.

## VI. WORK PRACTICE REQUIREMENTS.

# 012 [25 Pa. Code §123.1]

### Prohibition of certain fugitive emissions

- The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Condition #001, Section C from becoming airborne. These actions shall include, but not be limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.



## SECTION C. Site Level Plan Approval Requirements

- b. Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- c. Paving and maintenance of roadways.
- d. Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water or other means.

### VII. ADDITIONAL REQUIREMENTS.

# 013 [25 Pa. Code §123.42]

#### Exceptions

The limitations of opacity do not apply to a visible emission in any of the following instances:

- a. When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- b. When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- c. When the emission results from sources specified in Condition #001, Section C (relating to prohibition of certain fugitive emissions).

# 014 [25 Pa. Code §127.12b]

#### Plan approval terms and conditions.

This plan approval is issued for the following actions:

- a. The removal of the rotoclone C84 as a control device for the wet side of the S-1 Mixing and Pasting Operation (184) in Assembly Plant S-1.
- b. The construction of two (2) COS machines and associated Envelopers as part of Source 181 [S-1 Battery Assembly] to be controlled by a new fabric collector C841 [S-1 Pasting/Mixing/Assembly (Scientific #1)] and a new HEPA filter C841A [S-1 Pasting/Mixing/Assembly (HEPA)] at Assembly Plant S-1.
- c. The installation of a new fabric collector C841 [S-1 Pasting/Mixing/Assembly (Scientific #1)] and a new HEPA filter C841A [S-1 Pasting/Mixing/Assembly (HEPA)] at Assembly Plant S-1 to control parts of Source 181 [S-1 Battery Assembly], Source 182 [S-1 Gridcasting], Source 182A [S-1 Concaster] and Source 184 [S-1 Mixing & Pasting] at Assembly Plant S-1.
- d. The modification of Source 184 [S-1 Mixing & Pasting] by exhausting all parts of the source to the new fabric collector C841 [S-1 Pasting/Mixing/Assembly (Scientific #1)] and the new HEPA filter C841A [S-1 Pasting/Mixing/Assembly (HEPA)] at Assembly Plant S-1.
- e. The modification of Source 182A [S-1 Concasting] by exhausting it to the new fabric collector C841 [S-1 Pasting/Mixing/Assembly (Scientific #1)] and the new HEPA filter C841A [S-1 Pasting/Mixing/Assembly (HEPA)] at Assembly Plant S-1.
- f. The modification of the Source 182 [S-1 Gridcasting] by exhausting two of the casters and pots to the new fabric collector C841 [S-1 Pasting/Mixing/Assembly (Scientific #1)] and the new HEPA filter C841A [S-1 Pasting/mixing/Assembly (Scientific)] at the Assembly Plant S-1.

## SECTION C. Site Level Plan Approval Requirements

g. The modification of the Source 182 [S-1 Gridcasting] by relocating three casters to Assembly Plant A-2 (Source 133) to be controlled by the fabric collector C508 [A-2 COS/Enveloping/Gridcasting (Scientific #10)] and the HEPA filter C508A [A-2 COS/Enveloping/Gridcasting (HEPA)] at Assembly Plant A-2.

# 015 [25 Pa. Code §129.14]

### Open burning operations

No person shall conduct open burning of materials in such a manner that:

- a. The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- b. Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- c. The emissions interfere with the reasonable enjoyment of life and property.
- d. The emissions cause damage to vegetation or property.
- e. The emissions are or may be deleterious to human or animal health.

These limits do not apply where the open burning operations result from the following:

- a. A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- b. Any fire set for the propose of instructing personnel in fire fighting as approved by the Department, provided the permittee has notified the Department of the date, time and place of the training.
- c. A fire set for the prevention and control of disease or pests, when approved by the Department.
- d. A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- e. A fire set solely for recreational or ceremonial purposes.
- f. A fire set solely for cooking food.

This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P. S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.

## VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

## IX. COMPLIANCE SCHEDULE.

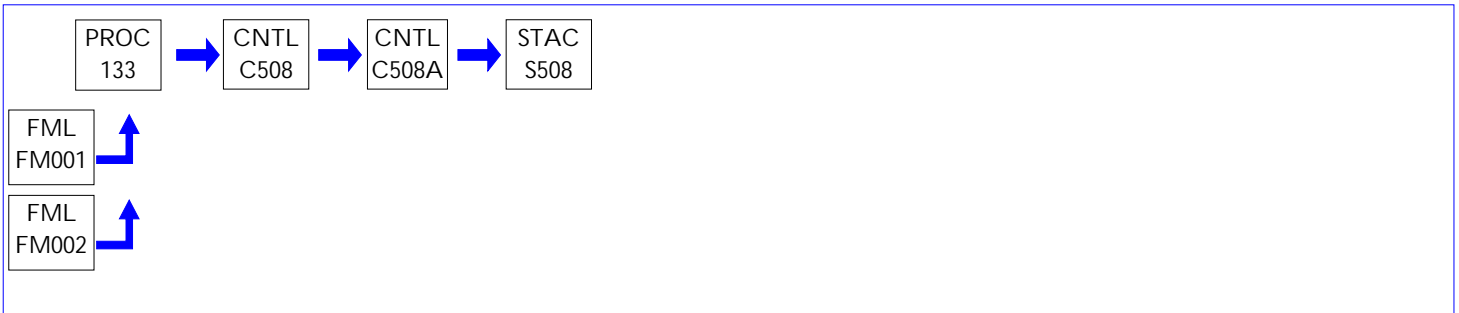
No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 133

Source Name: A-2 GRIDCAST (CARB FC 1 &amp; SCIEN FC 2, 7 &amp; 10)

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.21]

**General**

The permittee may not permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall limit the particulate emissions to the outdoor atmosphere from the source to 0.001 grains per dry standard cubic foot as measured at the exhaust stack of the control devices for the source.

All particulate emissions shall be determined by using the US EPA Test Method 5 or other method approved by the Department.

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS and 40 CFR Part 63, Subpart PPPPPP, MACT]

The permittee shall limit the lead emissions to the outdoor atmosphere from the source to 0.0001 grains per dry standard cubic foot as measured at the exhaust stack of the control devices for the source.

All lead emission rates shall be determined using US EPA Test Method 12 or other methods as approved by the Department.

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS and 40 CFR Part 63, Subpart PPPPPP, MACT]

The permittee shall operate the source in a manner which results in no visible emissions.



**SECTION D. Source Level Plan Approval Requirements**

All visible emissions shall be determined using US EPA Test Method 9 or other methods as approved by the Department.

# 005 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

Should any weekly pressure drop readings deviate from the normal range, the permittee shall record the incident and take corrective actions. All corrective actions shall be recorded.

**Fuel Restriction(s).**

# 006 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall limit the fuels used by the source to natural gas and/or a propane-air mix.

**II. TESTING REQUIREMENTS.**

# 007 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 60, Section 60.374]

Within sixty (60) days after achieving the maximum production rate at which the source will be operated, but not later than 180 days after the initial startup of the source, the permittee shall conduct performance testing as per Sections 60.8 and 60.374 of 40 CFR, Part 60, Subpart KK and Chapter 139 of the rules and regulations of the Department. The testing shall be for lead and visible emissions from the casters.

This testing can be conducted in conjunction with the testing required in the Plan Approval No. 06-05069M.

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 3, Subpart P, MACT]

The permittee shall conduct the following monitoring schedule on each particulate and lead control device:

- a. Weekly read the pressure drop across each control device, while the sources are in operation.
- b. Weekly inspect each control device and associated equipment, as appropriate, as follows:
  1. Visually inspect the control devices and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control device

**SECTION D. Source Level Plan Approval Requirements**

c. Semiannually inspect each control device and associated equipment, by performing an inspection and maintenance to ensure proper performance of each fabric collector, including an inspection of the structural and filter integrity of the collector.

The permittee shall record the results of each inspection on the approved inspection sheets. Any corrective actions should be recorded in this manner. The items in Part c shall be submitted to the Department in a semiannual report.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

# 009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

The permittee shall submit a semiannual monitoring system performance report to the Department that includes any pressure drop deviations and corrective actions taken.

**VI. WORK PRACTICE REQUIREMENTS.**

# 010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Equipment (a differential manometer or equivalent, as approved by the Department), shall be provided and maintained so that at any time the pressure drop across the fabric collector and the HEPA filter can be measured.

# 011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall operate all combustion equipment in a manner consistent with good combustion practices.

**VII. ADDITIONAL REQUIREMENTS.**

# 012 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

The source is subject to Subpart P of the National Emission Standards for Hazardous Air Pollutants for Source Categories and shall comply with all applicable requirements of this Subpart. 40 CFR Section 63.13 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division

**SECTION D. Source Level Plan Approval Requirements**

US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

# 013 [25 Pa. Code §127.12b]  
[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Section 63.11423, MACT]

The permittee shall perform a semiannual inspection and maintenance to ensure the proper performance of the fabric collector. This shall include an inspection of the structural and filter integrity. The permittee shall record the results of this inspection and any maintenance actions taken.

# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]  
[Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants](#)  
[Applicability and designation of affected facility.](#)

The source is subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

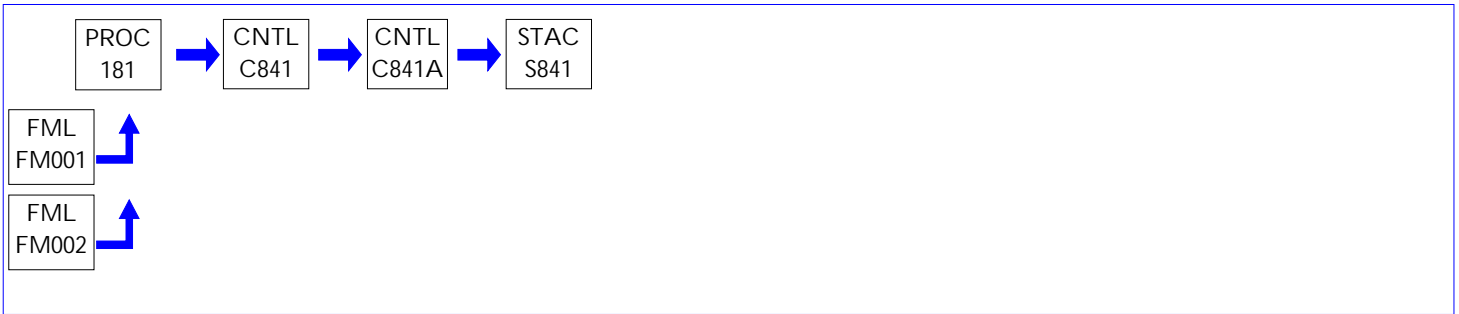
## SECTION D. Source Level Plan Approval Requirements

Source ID: 181

Source Name: S-1 BATTERY ASSMBLY & DRY CHARGE (SCIEN FC #3)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: S-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

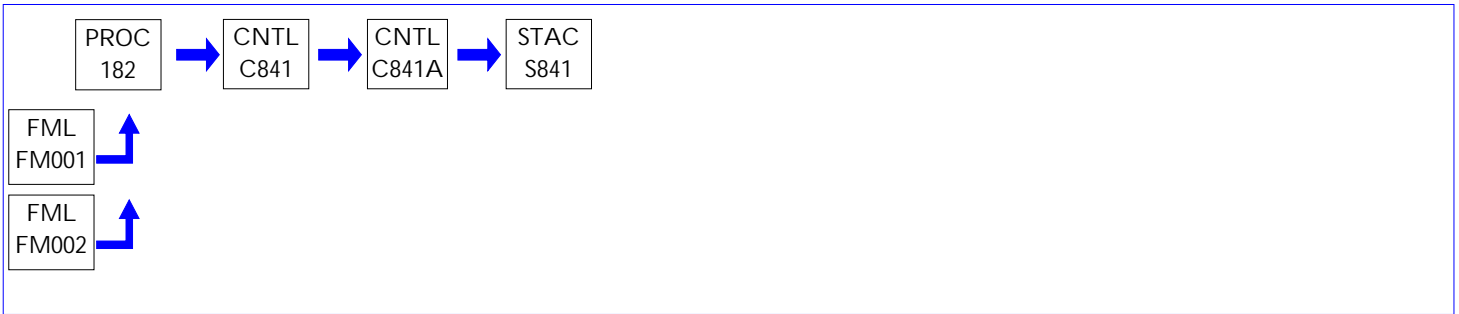
## SECTION D. Source Level Plan Approval Requirements

Source ID: 182

Source Name: S-1 GRIDCAST (SCIENTIFIC FC #1)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: S-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

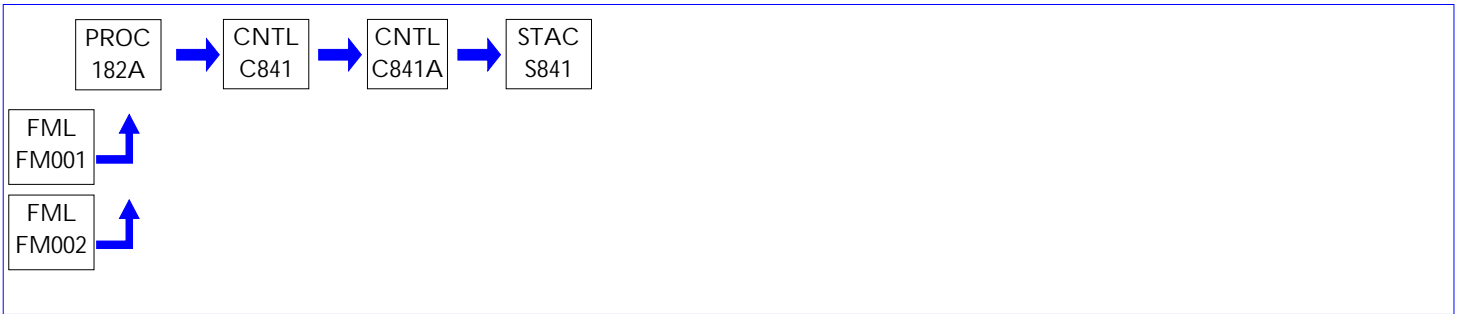
## SECTION D. Source Level Plan Approval Requirements

Source ID: 182A

Source Name: S-1 CONCAST (SCIENTIFIC FC #1)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: S-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

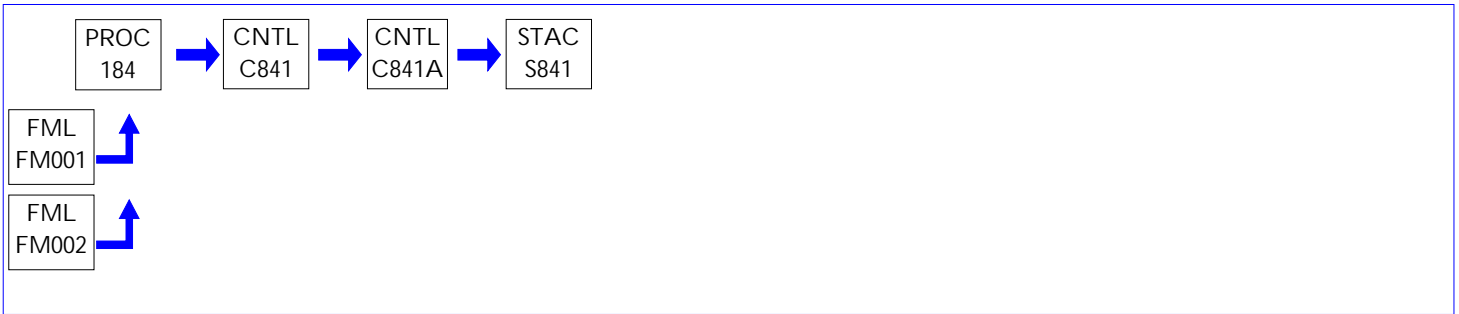
## SECTION D. Source Level Plan Approval Requirements

Source ID: 184

Source Name: S-1 MIXING & PASTING (SCIENTIFIC FC #1)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: S-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: S-1 BATTERY ASSEMBLY

Group Description: S-1 Battery Assembly Plant

Sources included in this group:

ID	Name
181	S-1 BATTERY ASSMBLY & DRY CHARGE (SCIEN FC #3)
182	S-1 GRIDCAST (SCIENTIFIC FC #1)
182A	S-1 CONCAST (SCIENTIFIC FC #1)
184	S-1 MIXING & PASTING (SCIENTIFIC FC #1)

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.21]

**General**

The permittee may not permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall limit the particulate emissions to the outdoor atmosphere from the sources to 0.001 grains per dry standard cubic foot as measured at the exhaust stack of the control devices for each source.

All particulate shall be determined by using the US EPA Test Method 5 or other method approved by the Department.

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS and 40 CFR Part 63, Subpart PPMPP, MACT]

The permittee shall limit the lead emissions to the outdoor atmosphere from each source to 0.0001 grains per dry standard cubic foot as measured at the exhaust stacks of the control devices for each source.

All lead emission rates shall be determined using US EPA Test Method 12 or other method as approved by the Department.

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS and 40 CFR Part 63, Subpart PPMPP, MACT]

The permittee shall operate the sources in a manner which results in no visible emissions.

All visible emissions shall be determined using US EPA Test Method 9 or other methods as approved by the Department.



**SECTION E. Source Group Plan Approval Restrictions.****Fuel Restriction(s).**

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall limit the fuels used by the sources to natural gas and/or a propane-air mix.

**II. TESTING REQUIREMENTS.**

# 006 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS and 40 CFR Part 63, Subpart P, MACT]

Within sixty (60) days after achieving the maximum production rate at which the sources will be operated, but not later than 180 days after the initial startup of the sources, the permittee shall conduct performance testing as per Sections 60.8 and 60.374 of 40 CFR, Part 60, Subpart KK and Chapter 139 of the rules and regulations of the Department. The testing shall be for lead and visible emissions from the various sources. The testing is required on the following:

The exhaust from the new control system consisting of: the fabric collector C841 [S-1 Pasting/Mixing/Assembly: Scientific] and the HEPA filter [S-1 Pasting/Mixing/Assembly: HEPA].

**III. MONITORING REQUIREMENTS.**

# 007 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

The permittee shall conduct the following monitoring schedule on each particulate and lead control device:

- a. Weekly read the pressure drop across each control device, while the sources are in operation.
- b. Weekly inspect each control device and associated equipment, as appropriate, as follows:
  1. Visually inspect the control devices and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control devices
- c. Semiannually inspect each control device and associated equipment, by performing an inspection and maintenance to ensure proper performance of each fabric collector, including an inspection of the structural and filter integrity of the collector.

The permittee shall record the results of each inspection on the approved inspection sheets. Any corrective actions should be recorded in this manner. The items in Part c shall be submitted to the Department in a semiannual report.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.****V. REPORTING REQUIREMENTS.**

# 008 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

The permittee shall submit a semiannual monitoring system performance report to the Department that includes any pressure drop deviations and corrective actions taken.

**VI. WORK PRACTICE REQUIREMENTS.**

# 009 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

Should any weekly pressure drop reading deviate from the normal range, the permittee shall record the incident and take corrective actions. All corrective actions shall be recorded.

# 010 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Equipment (a differential manometer or equivalent, as approved by the Department), shall be provided and maintained so that at any time the pressure drop across the fabric collector and the HEPA filter can be measured.

# 011 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall operate all combustion equipment in a manner consistent with good combustion practices.

**VII. ADDITIONAL REQUIREMENTS.**

# 012 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 63, Subpart P, MACT]

The sources are subject to Subpart P of the National Emission Standards for Hazardous Air Pollutants for Source Categories and shall comply with all applicable requirements of this Subpart. 40 CFR Section 63.13 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

# 013 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Section 63.11423, MACT]

**SECTION E. Source Group Plan Approval Restrictions.**

The permittee shall perform a semiannual inspection and maintenance to ensure the proper performance of the fabric collector. This shall include an inspection of the structural and filter integrity. The permittee shall record the results of this inspection and any maintenance actions taken.

# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

[Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants](#)

[Applicability and designation of affected facility.](#)

The sources are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029



## SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval facility.



## SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



\*\*\*\*\* End of Report \*\*\*\*\*